

Page

Item ID:

D3391-023

Revision ID:

Item Name:

Mid Tube Assembly

**Start Date:** 

4/11/2011

QC:

Start Qty: 1.00 Req'd Qty: 1.00



Accept



Setup

Start



Required Date: 4/15/2011

**Cust Item ID:** 

**Customer:** 

Reference: Approvals:

**Process Plan:** 

Tooling:

Date:

SPC (Y/N):

Date: Date: Run

Start



Stop



Sequence ID/ **Work Center ID**  Operation Description Set Up/ **Run Hours**  Tool ID

Tool# Plan Code

Accept **Oty** 

Reject **Qty** 

Reject Number

Insp. Stamp

Draw Nbr

**Revision Nbr** 

D3391

Rev H

100

Skidtubes

0.00

Skidtubes Skidtubes

Memo

0.00

1-Cut tube to finish length as per Dwg D3391

2-Identify as D3391-023

3-Drill pilot holes using DT8796 (Do not drill "B" holes) and drill only saddle hole on one side only as per Dwg D3391

4-Open saddles and GHW holes to Ø0,375" exept for fwd-saddle hole of detail

5-Remove .030" from Fwd indexing Ridge as per Dwg D3391

6-Remove indexing ridge on Fwd & Aft end of skidtube as per Dwg D3391

7-Deburr

8-Drill #30 pilot holes using wearplate Jig DT8217 Identify Ø0.250" holes with paint marker,

9-Open wearplate holes of D3391-023 assembly detail section G-G to Ø0.250" (14 holes) as per Dwg D3391 and 2 holes in section Detail "J" do not open wearplate holes of section "J"

10-Open wearplate holes of D3391-023 assembly detail section H-H to Ø0.297" \* ★ ★ (20 holes) as per Dwg D3391

11-4-13

W/O:			W	ORK ORDER CHANG	SES					t
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#### , Work Order ID 68276

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Item ID:

D3391-023

Accept



Setup Start

Stop



**Revision ID:** 

Item Name:

Required Date: 4/15/2011

Mid Tube Assembly

**Start Date:** 

4/11/2011

Start Oty: 1.00

Req'd Qty: 1.00



Cust Item ID:

**Customer:** 

Reference:

Approvals:	
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Process Plan:

Date:

Date:

Tooling:

SPC(Y/N):

Date:

Date:

Start Run



Sequence ID/

Operation

Set Up/ **Run Hours**  Tool ID

Tool # Plan

Code

Accept **Qty** 

Reject **Qty** 

Reject Insp. Number Stamp

**Work Center ID** 

**Description** 

11-Open .375" holes to .438" \*\*\*do not open-fwd-

12-Locate D3391-021 in D3391-023 at 9.00" (see view z-z)

13- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fwd saddle holes using DT 8149 locating from previusly drill .188" dia hole, using t-pins and clicos to ensure perfect allingment, open up previusly tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia. in D3391-021

14- Transfer drill 2 wearplate holes into D3391-021 using DT8217, locating from two previously drilled holes, drill remaining wearplate holes into D3391-021.

15- Locating from two fwd wearplate holes drilol remaining 6 wearplte holes in D3391-021 using DT8937

16- Open 2 fwd wearplate holes in D3391-023 to .250" dia.

17- counterbore two aft wearplate holes in D3391-021 as per dwg

18- Open 12 wearplate holes in D3391-021 to 0.297" dia.

19-Deburr and blow out all chips from inside tube

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#### Work Order ID 68276

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Item ID:

D3391-023

Accept

Setup Start



**Revision ID:** 

Item Name:

Mid Tube Assembly

Stop

**Start Date:** 

4/11/2011 Required Date: 4/15/2011

Start Qty: 1.00 Req'd Qty: 1.00

Cust Item ID: **Customer:** 

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Tool ID

Run

Start



Date:

SPC (Y/N):

Date:

Stop

Sequence ID/ Work Center ID

110

QC ू

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Set Up/ **Run Hours** 

0.00

Tool # Plan Code

Accept Reject **Qty** Qty

Reject Number

Insp. Stamp

0.00

M 1 04 14

120

HandFinish Hand Finishing Memo

Chemical Conversion Coat per QSI005 4.1

Memo

0.00

0.00

130

QC

Quality Control

QC3-Inspect Part Finish

0.00

Memo

0.00

1 & BE1/04/15

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Item ID:

D3391-023

Accept

Setup Start



**Revision ID:** 

Item Name: Mid Tube Assembly

**Start Date:** 

Required Date: 4/15/2011

4/11/2011

Start Qty: 1.00

Req'd Qty: 1.00



**Cust Item ID: Customer:** 

Reference:

Approvals:

Process Plan:

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run

Start Stop

Stop

Sequence ID/ **Work Center ID**  **Operation** Description

Skidtubes

Set Up/ **Run Hours**  Tool ID

Tool # Plan Code

Accept Qty

Reject **Oty** 

Reject Insp. Number Stamp

140

Skidtubes Skidtubes

Memo

0.00

0.00

1-Open float bag holes as per dwg 2-C'sink float bag holes as per dwg

Date:

3- Prepare tube for welding

4-Bond web in place as per Dwg D3391 & QSI 015.

Adhere for 12 hours)

A/R Sikaflex exp: / \_] batch#: m1/644

150

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

11-4-1

160

Skidtubes

Skidtubes

Memo

0.00

0.00

Skidtubes

1-Weld crossbolt spacer as per dwg D3391 & QSI 004

2-grind weld flush

W/O:			WO	RK ORDER CHA	ANGES					, ,
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Item ID:

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Accept

Setup Start



Revision ID:

Item Name:

Mid Tube Assembly

Stop

**Start Date:** 

4/11/2011 Required Date: 4/15/2011

Start Qty: 1.00

Req'd Qty: 1.00

**Cust Item ID:** 

**Customer:** 

Reference:

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Process Plan:

Date:

Tooling:

Date:

Date:

Run

Start

Stop



Date: SPC (Y/N):

Reject Qty

Reject Number Insp.

Sequence ID/ Work Center ID

170

QC

Quality Control

Operation Description

QC10- Inspect visual per QSI004- ground welds

Memo

Memo

Set Up/ **Run Hours** 

Tool ID

Tool # Plan

Code

Accept Qty

Stamp

180

QC

Quality Control

QC5- Inspect part completeness to step on W/O

8 Moylis

185

HandFinish

Memo

Pressure Wash per QSI005 4.3

0.00

0.00

Hand Finishing

←AND REALODINE AS PER PAR09-043

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0.00

0.00

200 QC

Quality Control

QC3- Inspect Part Finish

Memo

W/O:	<u> </u>	<del></del>	WC	ORK ORDER CHAN	GES					•
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Page 7

Insp.

Stamp

Monday, April 11, 2011 12:36:22 PM Item ID: D3391-023 Accept Setup Start **Revision ID:** Mid Tube Assembly Item Name: **Start Date:** 4/11/2011 Start Oty: 1.00 **Cust Item ID:** Required Date: 4/15/2011 Req'd Qty: 1.00 **Customer:** Reference: Run Start Process Plan: Tooling: Approvals: Date: Date: Stop Date: SPC (Y/N): Date: Sequence ID/ Reject **Operation** Set Up/ Tool ID Tool # Plan Accept Reject **Work Center ID** Description **Run Hours** Code Qty **Qty** Number 0.00 210 Skidtubes Skidtubes 0.00 Memo Skidtubes 1- insert D3391-021 into D3391-23 2- insert T-pins into first and third fwd saddle holes 3- ON FIRST SIDE ONLY drill out 2nd and forth fwd saddles holes to 0.500" as per DSI 9364 4- remove T-pins and locate DT9415 from first and third crossbolt hole using Tpins and clekos 5- ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499". Remove DT9415 6- deburr, re-alodine and blow out chips 7- press fit D3591-1 spacers using DT9416 starting from 0.500" side OC5- Inspect part completeness to step on W/O 220 0.00 QC

**Quality Control** 

0.00

Memo

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#### Work Order ID 68276

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Item ID:

D3391-023

Accept

Setup Start



**Revision ID:** 

**Start Date:** 

Mid Tube Assembly Item Name:

4/11/2011

Start Qty: 1.00 Req'd Qty: 1.00

**Cust Item ID:** 

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

Stop

Required Date: 4/15/2011

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ **Work Center ID** 

230

HandFinish Hand Finishing

Operation Description

HandFinishing

Memo

Memo

Install Inserts as per Dwg

Set Up/ **Run Hours** 

0.00

0.00

Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Reject Number

Insp.

Stamp

240

Quality Control

QC5- Inspect part completeness to step on W/O

250

Packaging

Identify as per dwg & Stock Location:

0.00

Memo

0.00

Packaging

W/O:		WORK ORDER CHANGES	6				•
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
11/04/20	230	Assemble with D3564-5/B66551 (wearplate) D3566-5/B66552 (GASKET)	ابلا	11/04/20	X(		
11/04/20	230	Assemble with NASILIACO332R/MILTZ91 (WAShers) AN3C=4A/MILLAZ4 (bolts)	M	11104/20	X(2 X(2		

Part No: _		PAR #:	Fault Categor	y:	NCR: Yes No	DQA:	Date: _	
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#### Work Order ID 68276

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Item ID:

D3391-023

Accept



Date:

Setup Start

Stop



**Revision ID:** 

Item Name:

Mid Tube Assembly

**Start Date:** 

4/11/2011

Start Qty: 1.00

Operation

Description

Required Date: 4/15/2011

Req'd Qty: 1.00



**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan:

QC:

Date: Date:

Tooling:

SPC (Y/N):

Date:

Run Start

Stop



Sequence ID/

Work Center ID

260

QC21- Final Inspection - Work Order Release

Set Up/ Run Hours

0.00

Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Reject Insp. Number

Stamp

Quality Control

Memo

0.00

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Work Order ID: 68276

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



Start Date: 4/11/2011

Required Date: 4/15/2011

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP A□05.10.20□New Issue□

IPP B□06.02.10□ECN773 dwg rev.D

07.03.20 rev F dwg IPP C

IPP D 07.03.28 re-format

EC EC IPP E 07.10.31 ecn 1053P

IPP Rev:F ECN 1056 07-11-13 DD verified by: EC IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec IPP Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

KJ/EC []

 $EC\Box$ EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2500-1-100		Manufactured	No			100	Each	104.0000		1			
				Location HALL	37065 50251	Loc	Oty 104 22 82	Loc Code				-4-1	3
D3391-021  Fwd Tube Assembly		Manufactured	No			100	Each	0.0000	1	1			
D3389-1		Manufactured	No			140	Each	1.0000	1	1	BE	n/oyle	5
				Location ST055	!	Loc	Qty 1	Loc Code			_	,	
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W/O:			WC	ORK ORDER CHANG	ES				54
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#### **Picklist Print** Monday, April 11, 2011 12:36:28 PM Work Order ID: 68276 D3391-023 Parent Item: Parent Item Name: Mid Tube Assembly Required Date: 4/15/2011 Start Date: 4/11/2011 Required Qty: 1.00 Start Qty: 1.00 D3681-1 Manufactured No 160 Each 29.0000 Spacer Location Loc Qty Loc Code LG001 29 65990 29 D3591-1 210 Each 59.0000 No Manufactured Bushing Location Loc Oty Loc Code 59 ST068

57350 66147

No

Purchased

ST281 2000 1116800 x 20 117331 2000

22

37

Each

2,000.000

20

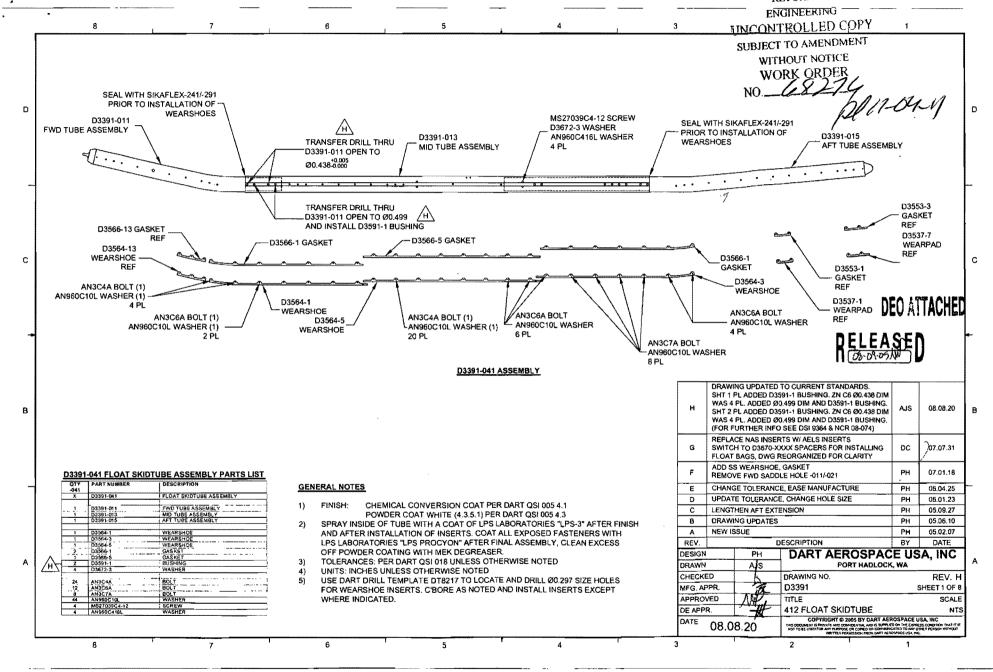
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230

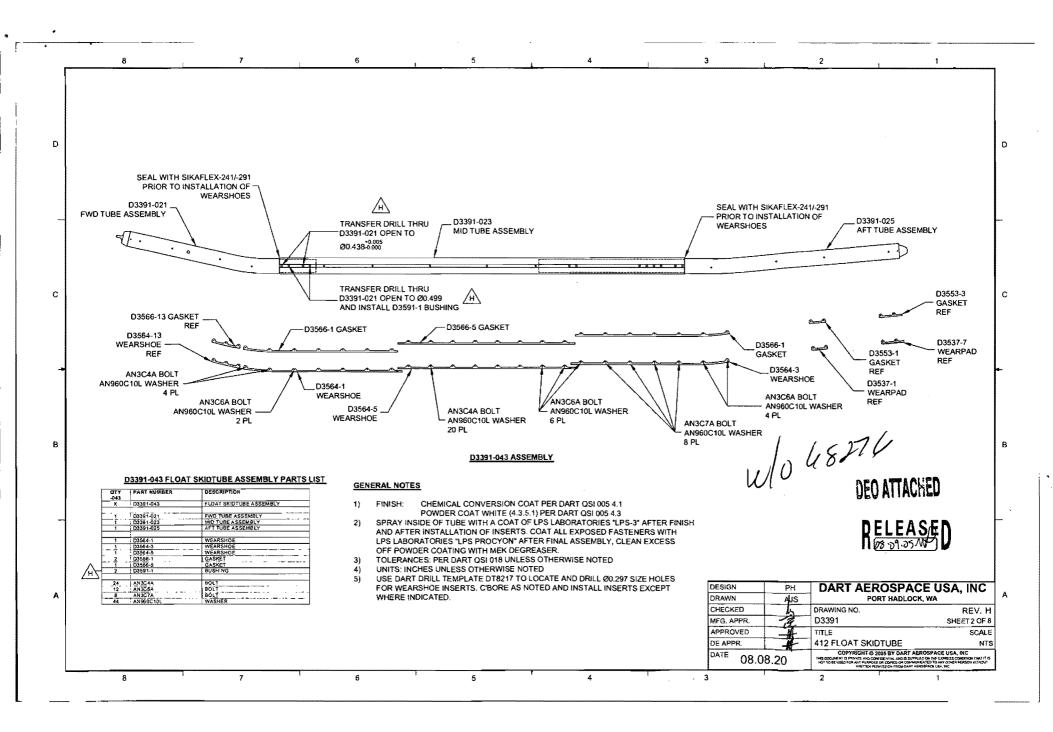
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Page 2

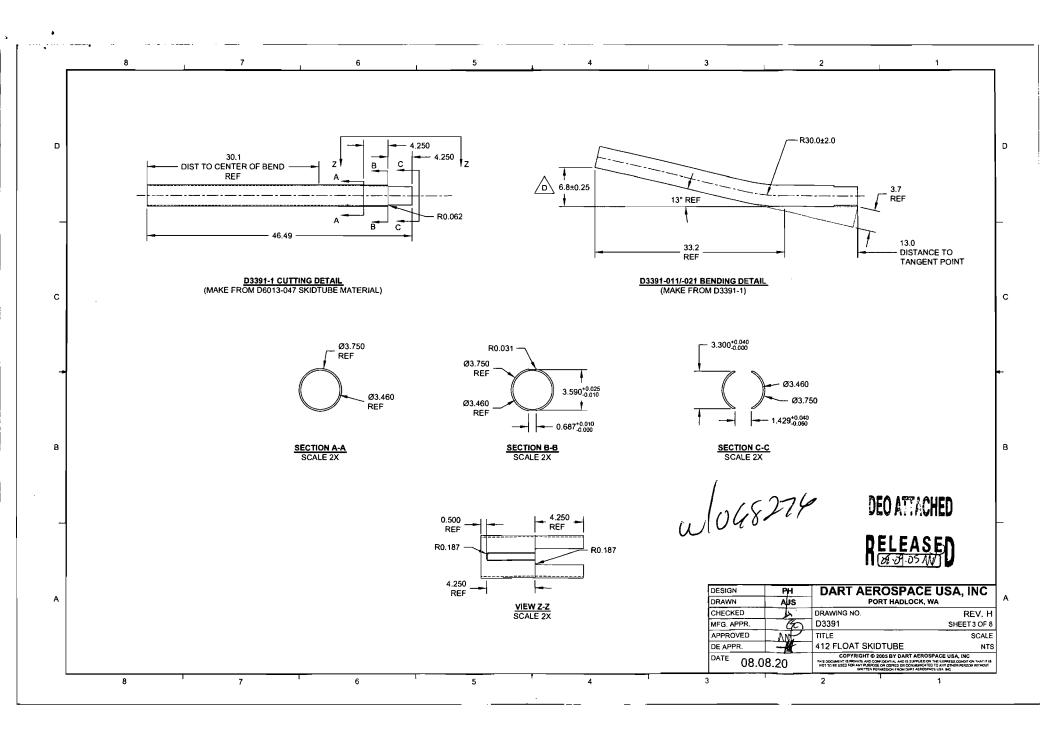
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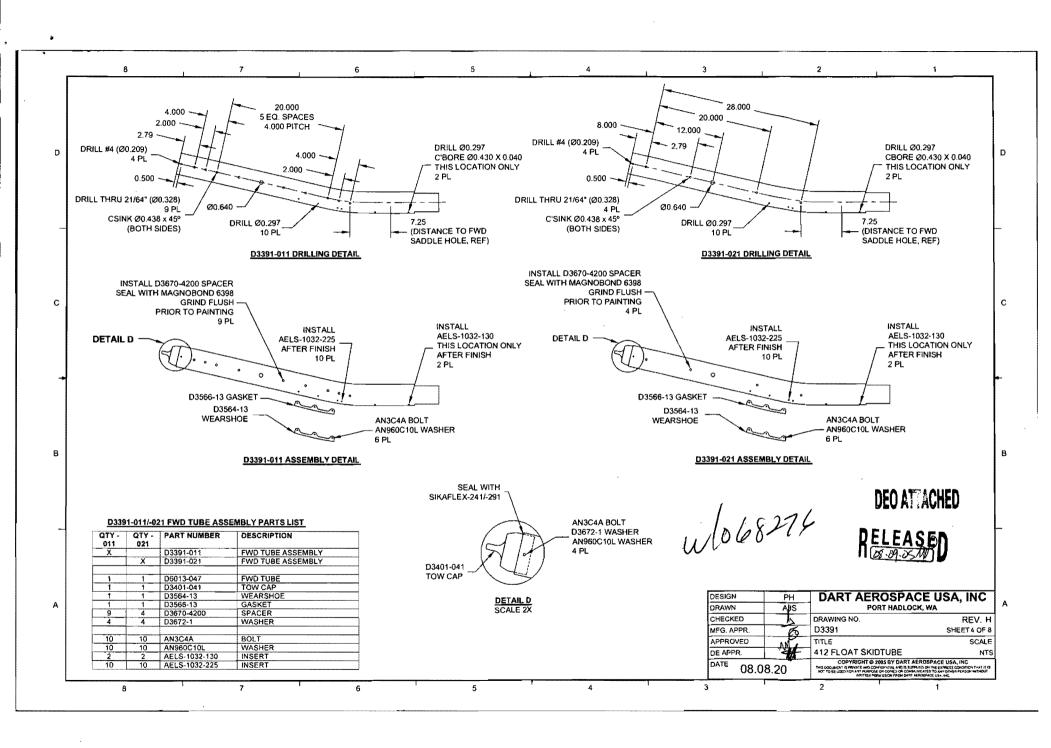


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DATE	STEP	Description of NC		Corrective Action Section		Verification	Approval	Approval
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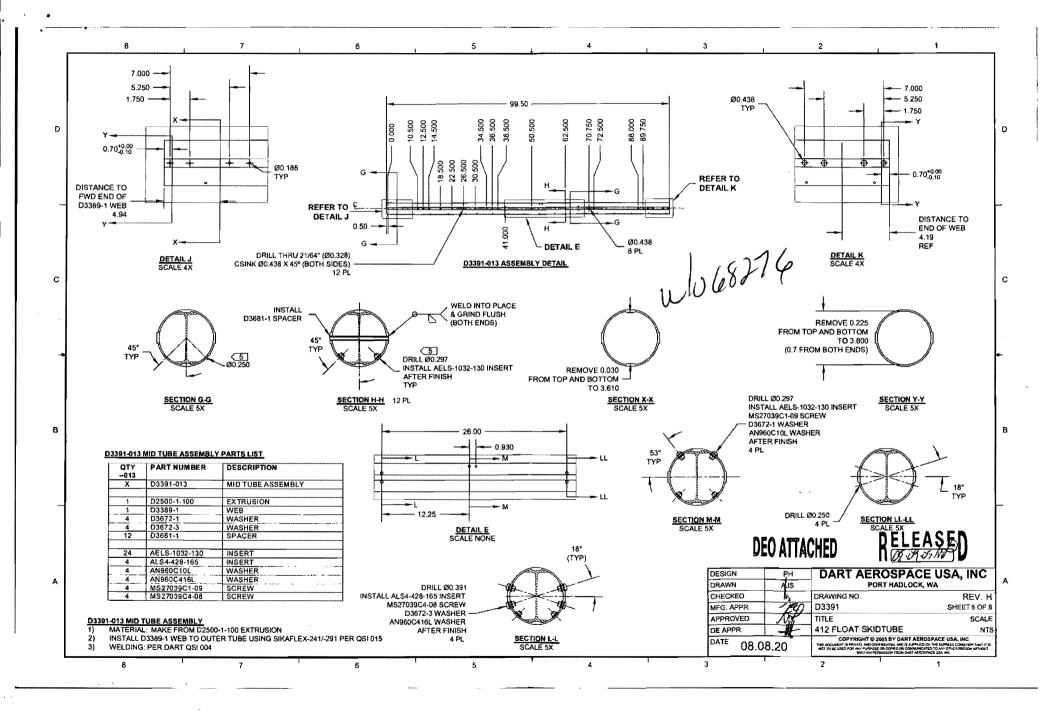


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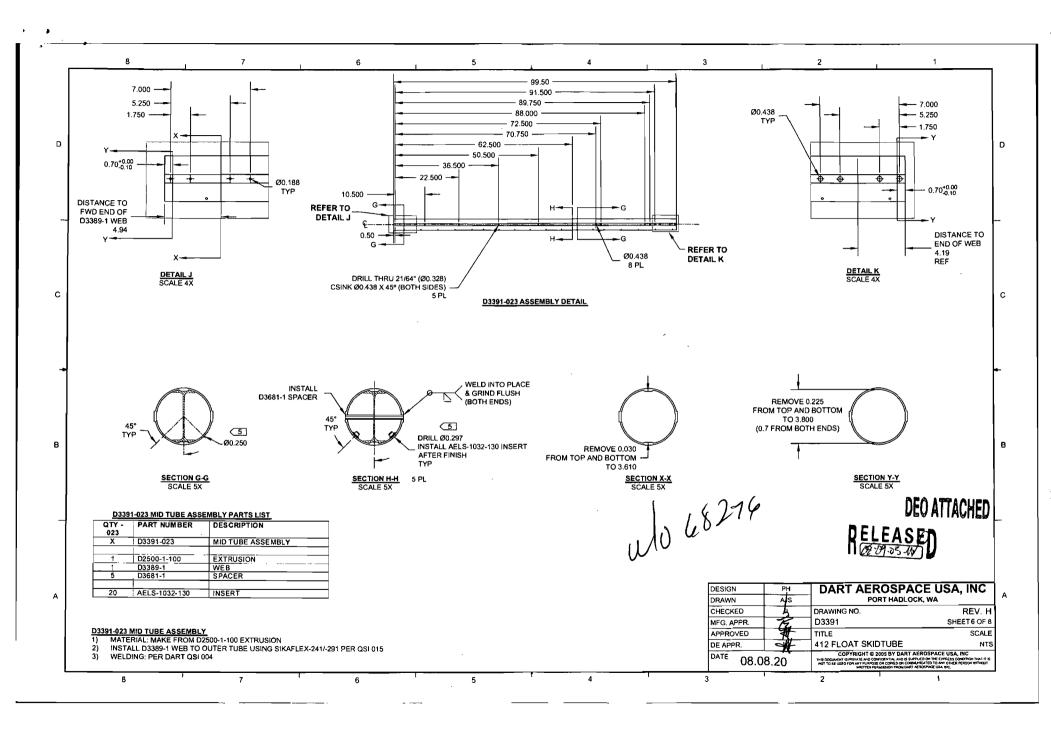
NCR:		WORK ORDER NON-CONFORMANCE (NCR)										
		Description of NC		Corrective Action Section B	3	Verification	Approval	Approval				
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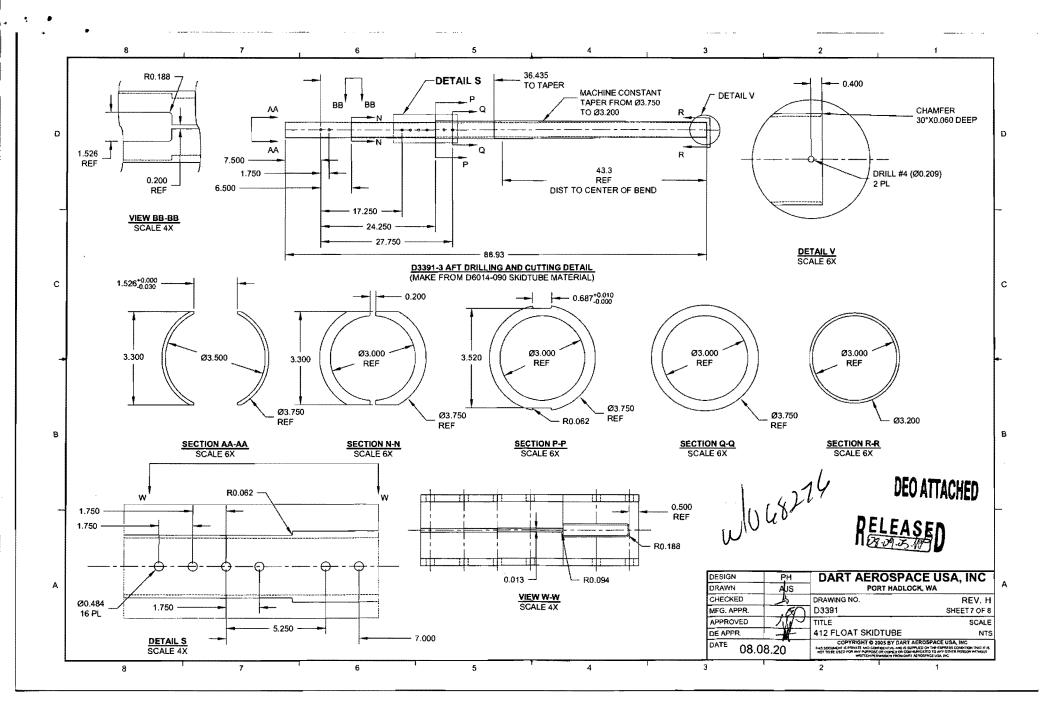
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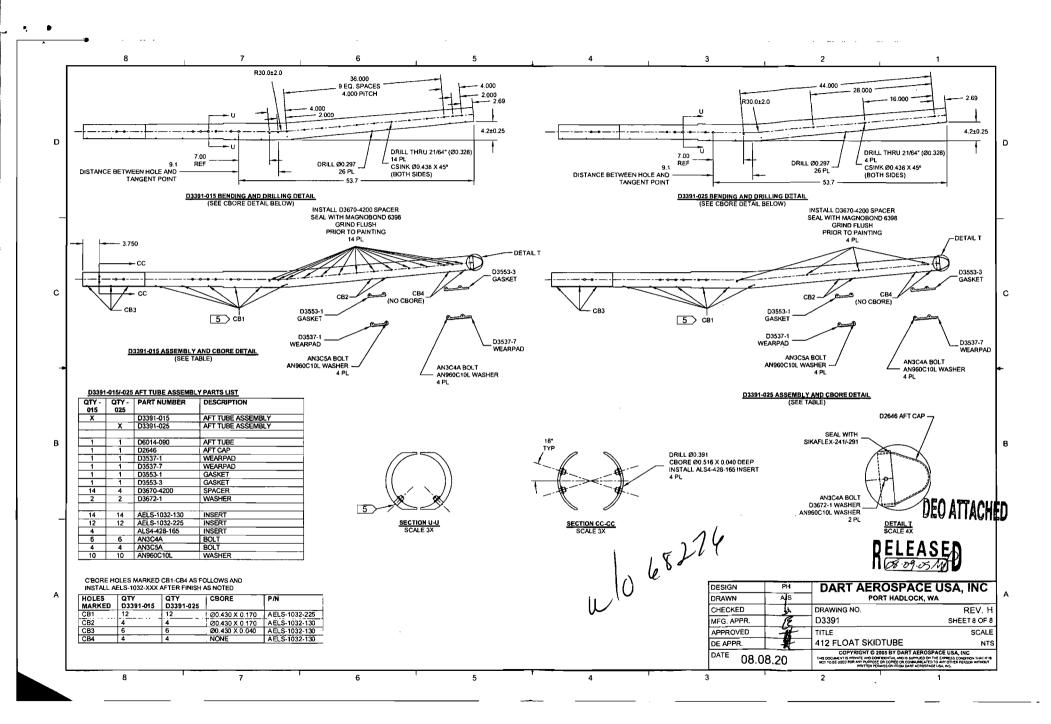
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DATE	STEP	Description of NC	Initial	Corrective Action Action Description	Section B	Sign &		cation	Approval	Approval
		Section A	Chief Eng	Chief Eng	/11	Date	Sect	ion C	Chief Eng	QC Inspector
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NOTE: D	ate & initi	al all entries			1		-			- Company



W/O:		WORK ORDER CHANGES										
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W/O:			W	ORK ORDER CHANG	ES				<b>●</b>	
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DRAWING I	NO. TITLE		REV. H D	ART AEROSPACE USA, I	NC D.E.O. NO.	SHEET NO.	SCALE
D3391	412 FLOAT	SKIDTUBE	,	<b>ENGINEERING ORDER</b>	D3391-H-1	SHEET 1 OF, 1	NTS
DRAWN	A?	CHECKED	L.	MFG. APPR.	APPROVED MA	DE APPR.	
DATE	09.09.23	DATE 04	.04.24	DATE 09/09/25	DATE 09/09/30	DATE 09/09/3	<b>5</b>

#### **PURPOSE:**

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

#### CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.



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W/O:		WORK ORDER CHANGES	1,4				
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Part No	:		R: Yes	s No DQ	<b>\</b> :	Date: _	

	Resolution:		Disposition: QA: N/C Closed: Date:					
NCR:	16.7	* · · · · · · · · · · · · · · · · · · ·	VORK ORDE	ER NON-CONFORMAI	NCE (NCR)			
		Description of NC	.;	Corrective Action Section B				
DATE	STEP	Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector
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NO. 244

# AWS D17.1.2001 QUALIFICATION TEST RECORD

2 11 1/2	
Name: Darkland Elliott	
Job number: <u>65328</u>	
Part number: <u>339/~023</u>	
Description: mid tube	
Welding Process: Tig[\begin{align*} \text{Tig[\beta]} & Mig[ ]	
Base materiel: alleemeneem	
Current: AC[ ] DC[ ]	

# TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[ ] fail[ ] pass[ ] fail[ ]
<u>UNACCEPTABLE</u>	
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[]
Qualifier Lat Acomp  Welder Browlay Wood	Date of Test Coupon // O/ 18  Date of Test Coupon // 191-18

The above named individual is qualified in accordance with AWS D17.1.2001 to weld

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